A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B21B31/14 B21B31/14 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° 1-8 Α US 5 887 472 A (ABBEY III NELSON D) 30 March 1999 (1999-03-30) cited in the application claim 1; figure 1 US 5 600 988 A (ABBEY III NELSON D ET AL) 1-8 Α 11 February 1997 (1997-02-11) figures 2,3 US 5 720 195 A (RUPLE LEWIS H) 1-8 Α 24 February 1998 (1998-02-24) figures 1-5 GB 03792 A A.D. 1915 (JOSEPH EDWARD 1,8 Α FAWELL, PITTSBURGH, USA) 16 September 1915 (1915-09-16) figures 1,2,15 Further documents are listed in the continuation of box C. Patent family members are listed in annex. • Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. other means document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 March 2005 11/04/2005 Authorized officer Name and malling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Forciniti, M Fax: (+31-70) 340-3016

Information on	patent family	y members

PCT/CH2005/000005

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